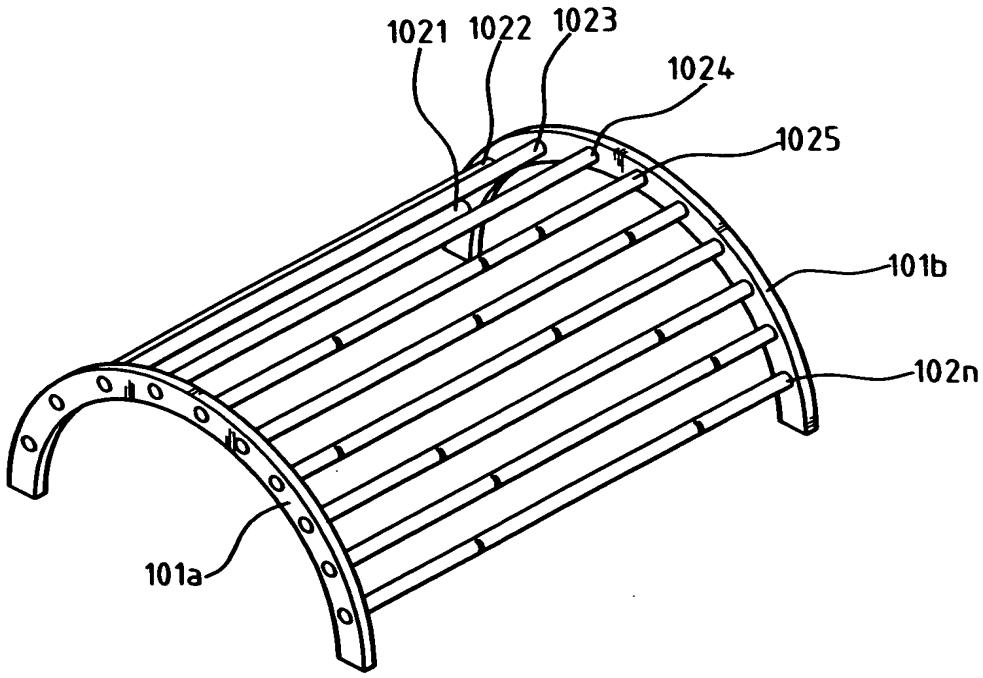

FIG. 1

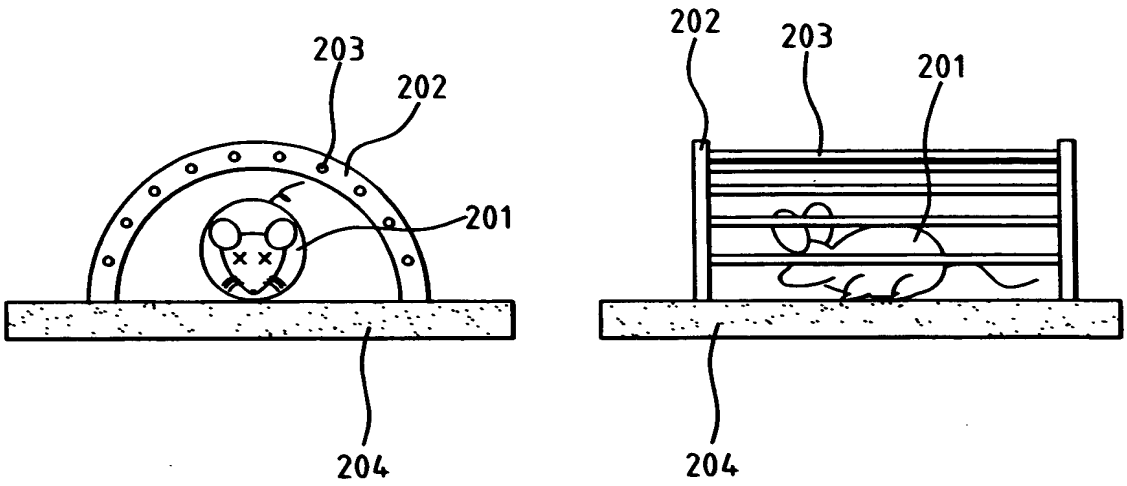

FIG. 2

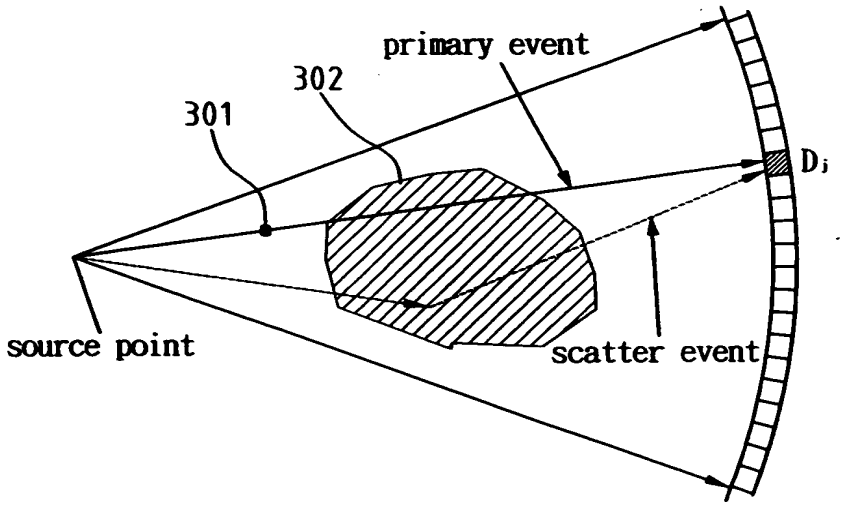
primary event
302
301
D_i
source point
scatter event

FIG. 3a

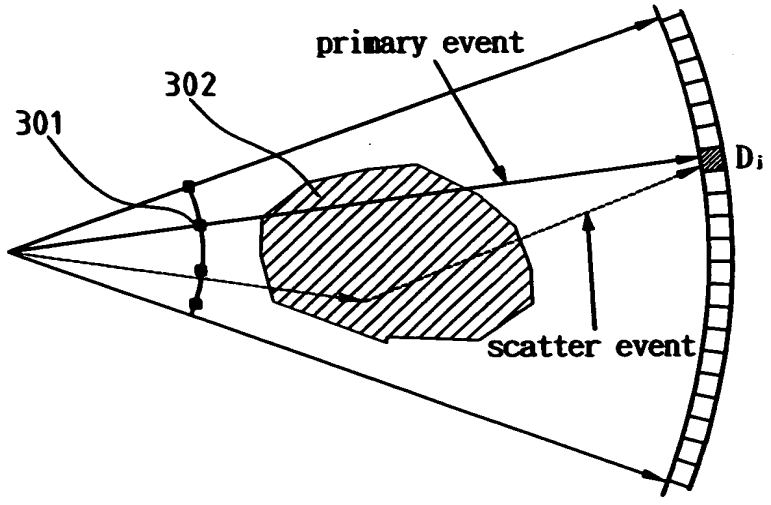
primary event
302
301
D_i
scatter event

FIG. 3b

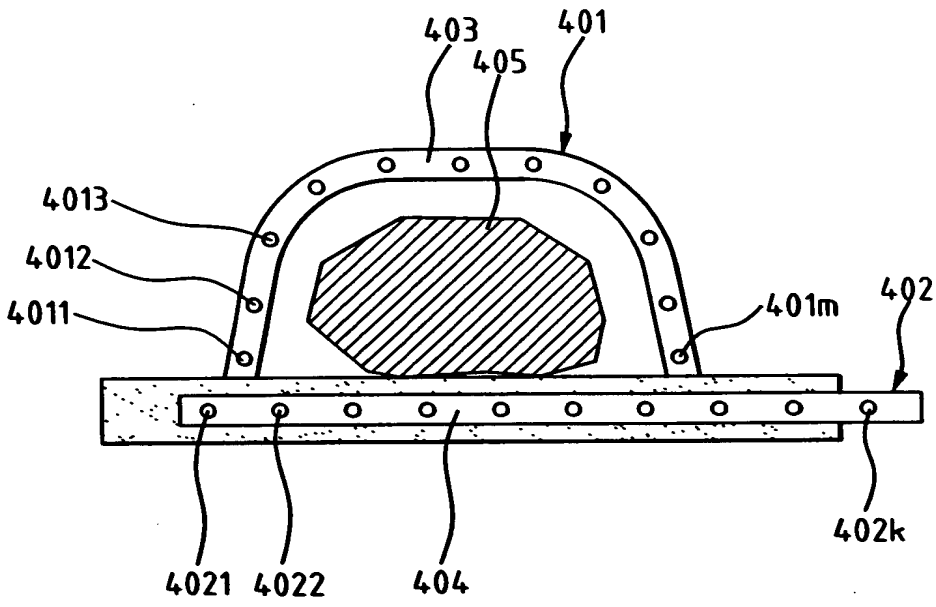

FIG. 4

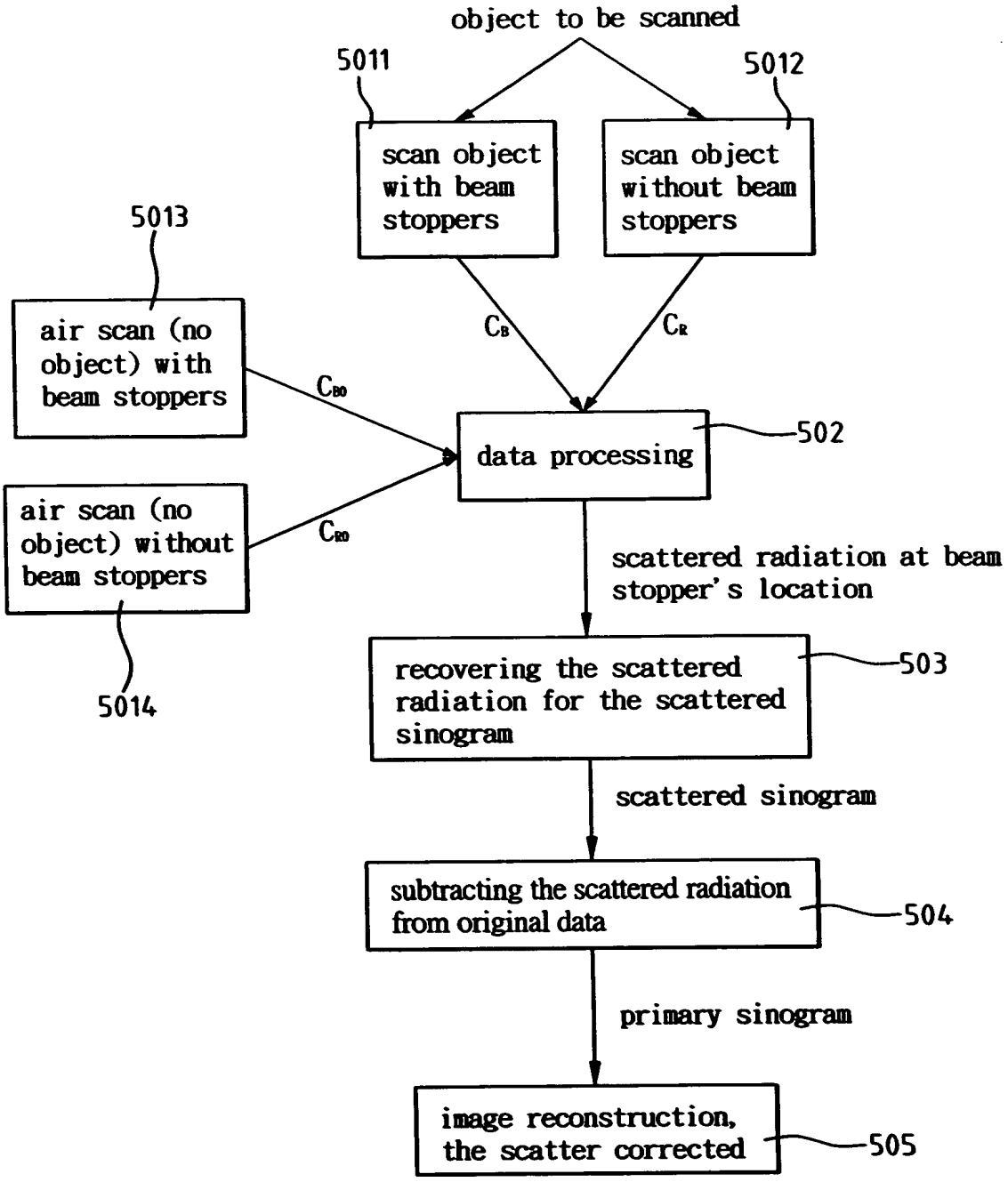
object to be scanned
5011
5012
scan object with beam stoppers
scan object without beam stoppers
5013
air scan (no object) with beam stoppers
C_B
C_R
C_{B0}
data processing
502
air scan (no object) without beam stoppers
C_{R0}
scattered radiation at beam stopper's location
5014
recovering the scattered radiation for the scattered sinogram
503
scattered sinogram
subtracting the scattered radiation from original data
504
primary sinogram
image reconstruction, the scatter corrected
505

FIG. 5

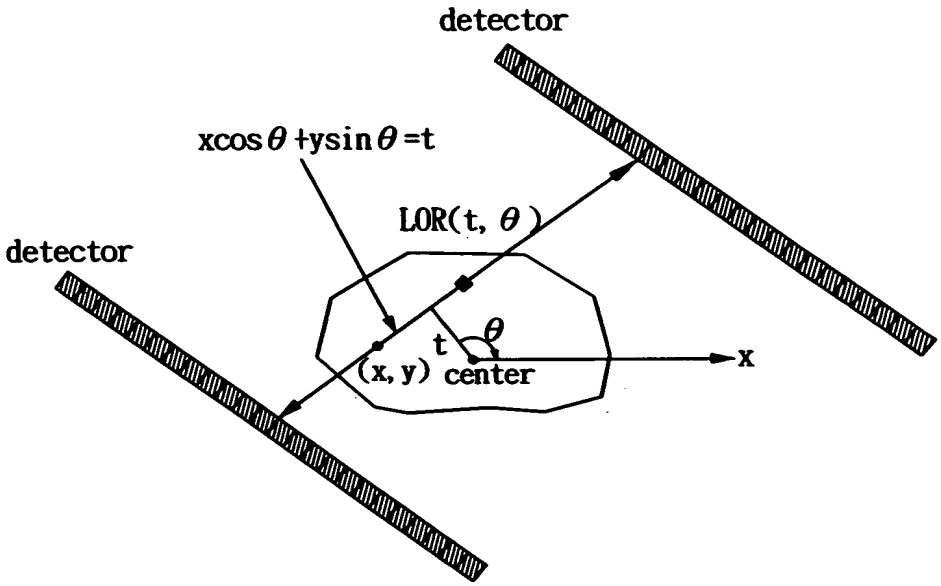

FIG. 6

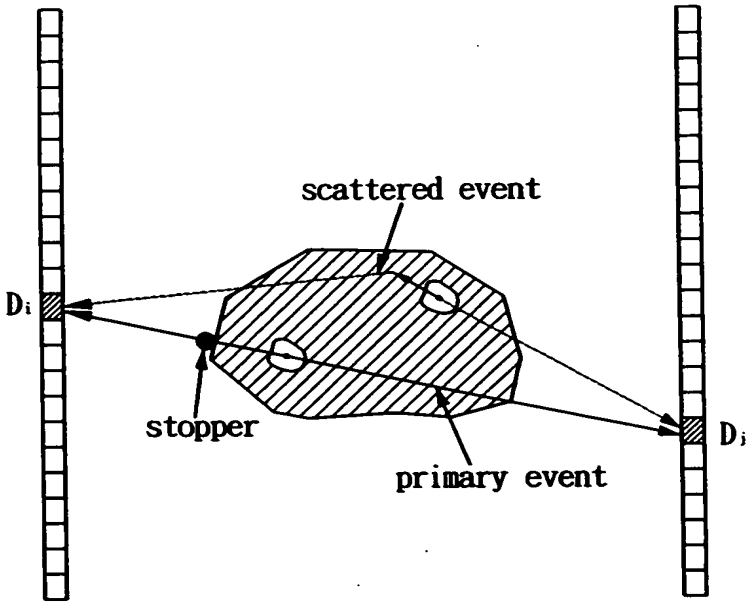
scattered event
D_i
stopper
primary event
D_j

FIG. 7a

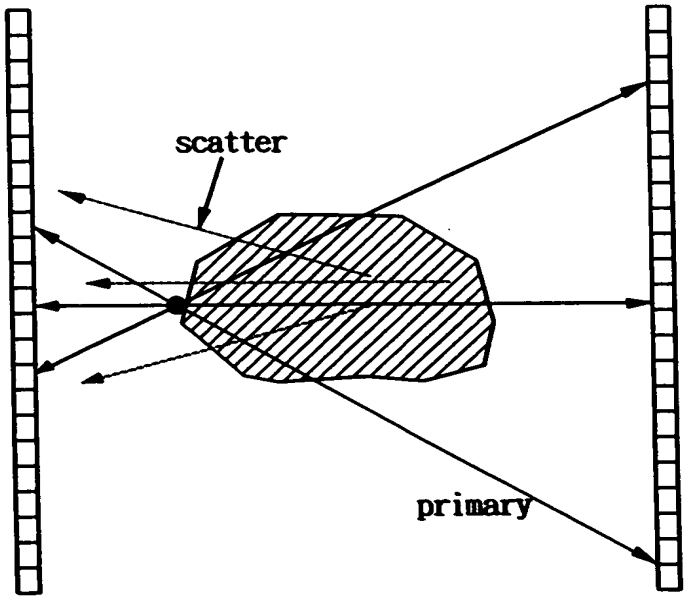
scatter
primary

FIG. 7b

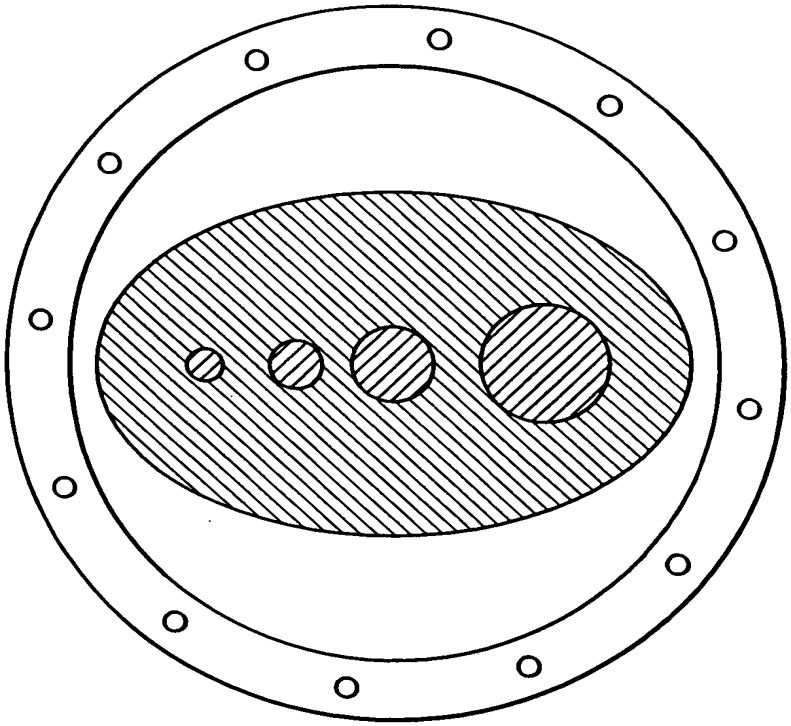

FIG. 8

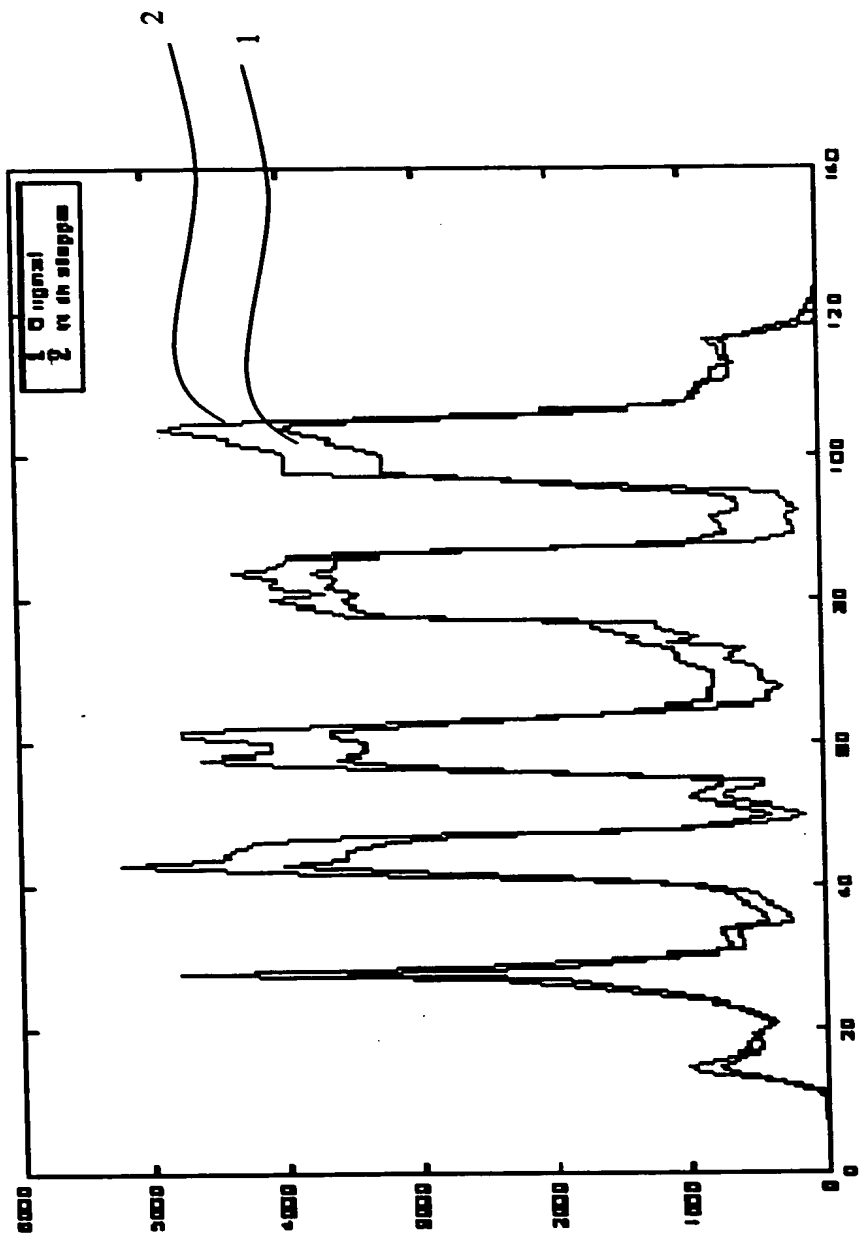

FIG. 9